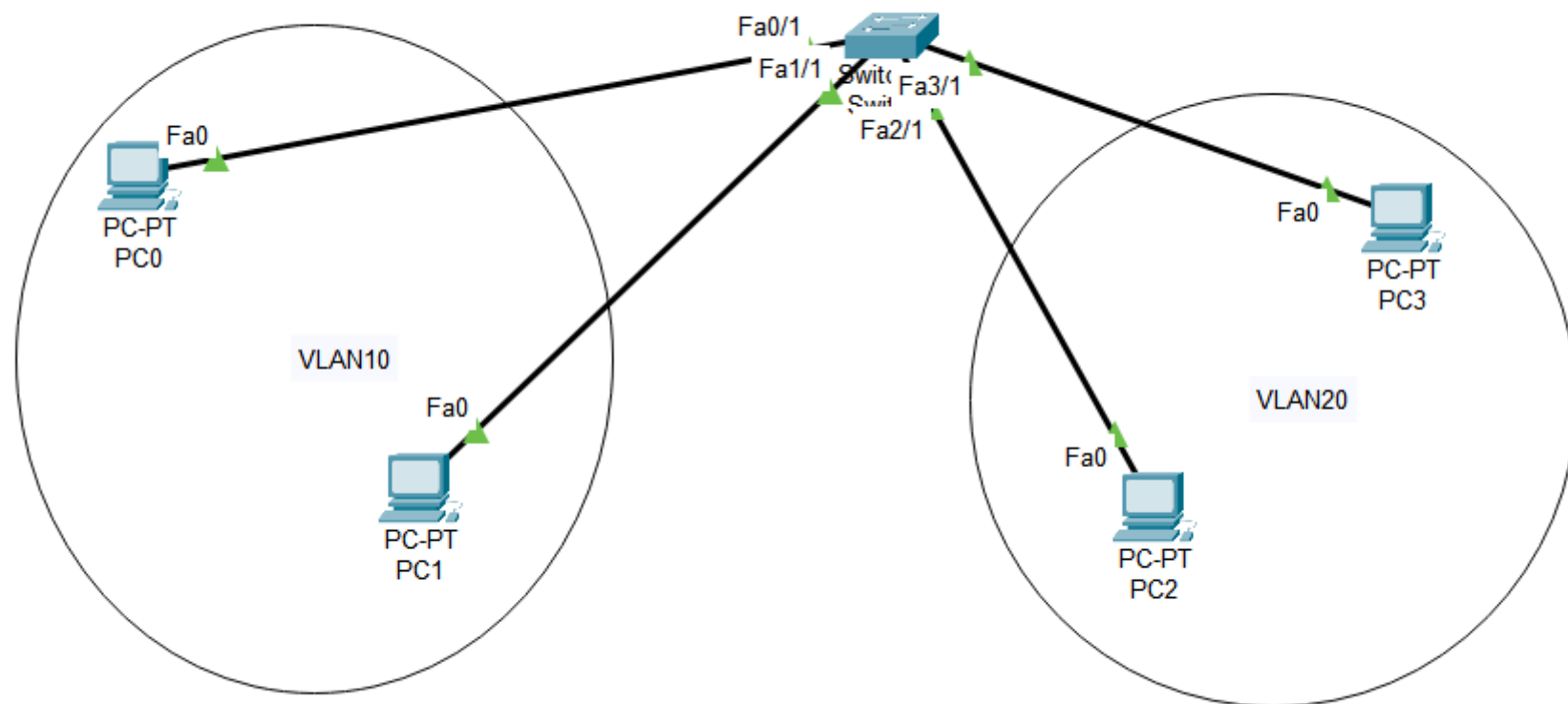


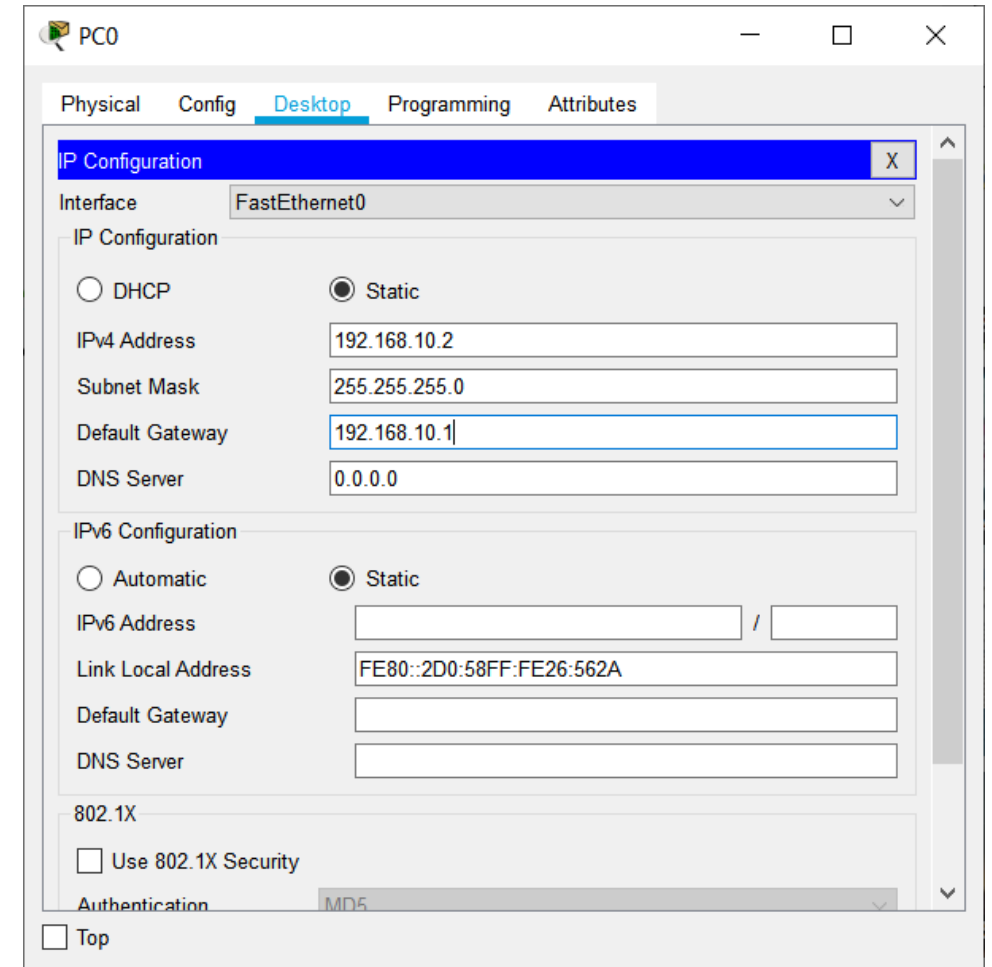
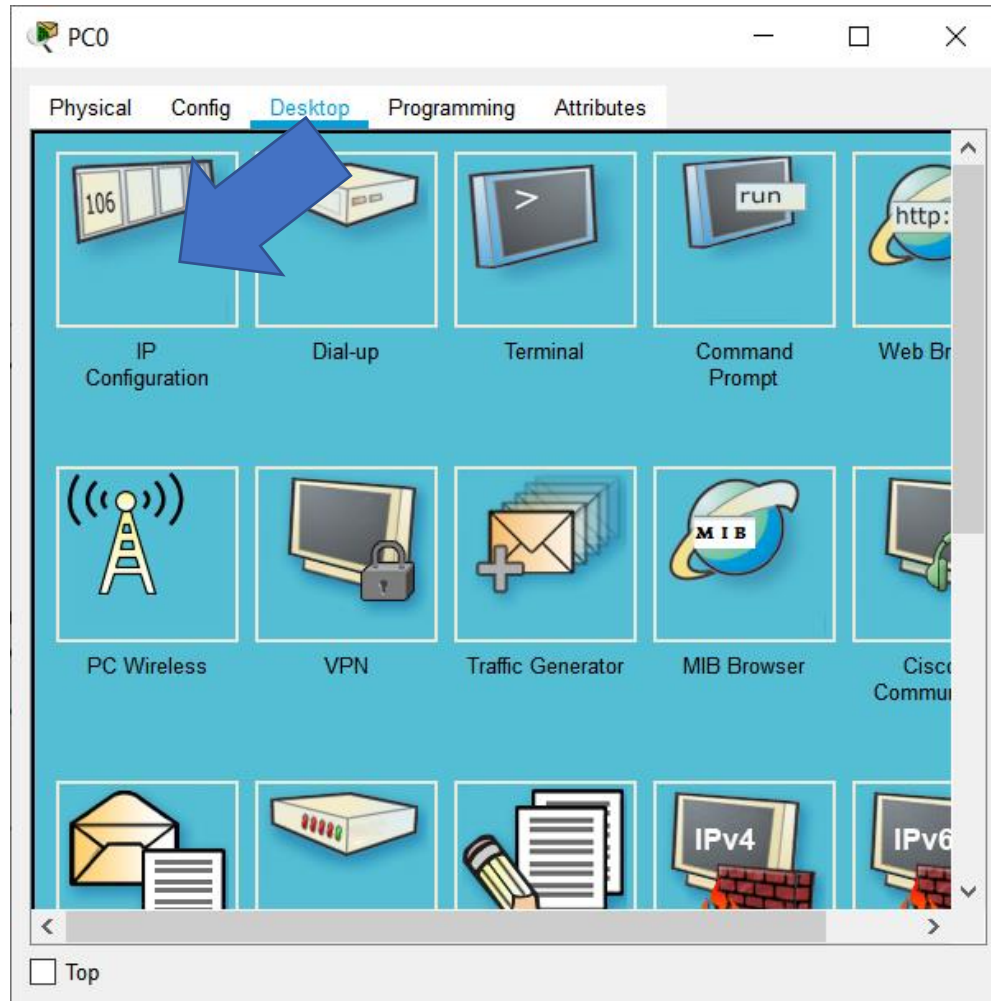
# Criação de VLAN-PT

## parte 1

1. Configurar IP nos PCs
2. No switch: criar VLAN e interfaces (access ou trunk)



# Em cada PC



# Em cada PC

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:2FFF:FE6E:A3E1

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

☐ Top

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.20.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.20.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20A:41FF:FEEA:19CA

Default Gateway

DNS Server

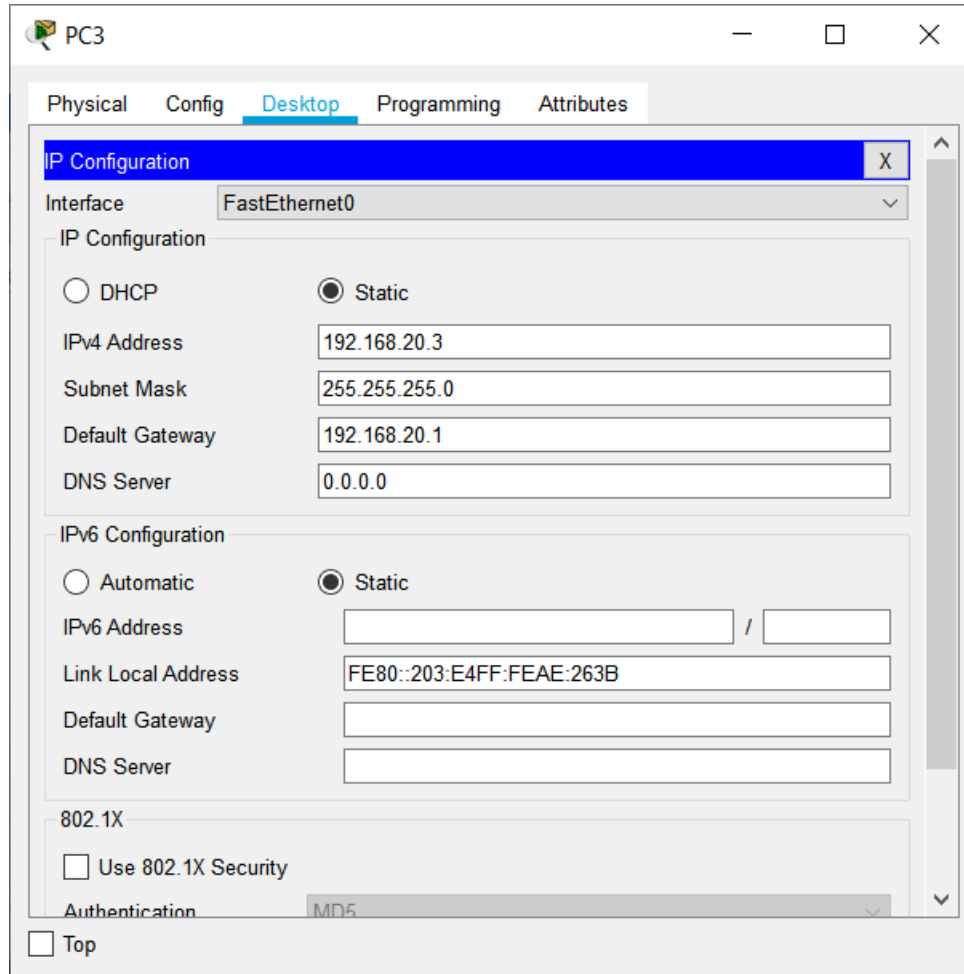
802.1X

☐ Use 802.1X Security

Authentication MD5

☐ Top

# Em cada PC



The image shows a configuration window for a device labeled "PC3". The window has four tabs: "Physical", "Config", "Desktop" (which is selected), and "Programming". Below the tabs, there is a section titled "IP Configuration" with a close button "X". Under this section, the "Interface" is set to "FastEthernet0".

The "IP Configuration" section contains two main parts: "IP Configuration" and "IPv6 Configuration".

**IP Configuration:**

- ☐ DHCP
- ☒ Static
- IPv4 Address: 192.168.20.3
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.20.1
- DNS Server: 0.0.0.0

**IPv6 Configuration:**

- ☐ Automatic
- ☒ Static
- IPv6 Address: [empty] / [empty]
- Link Local Address: FE80::203:E4FF:FEAE:263B
- Default Gateway: [empty]
- DNS Server: [empty]

**802.1X:**

- ☐ Use 802.1X Security

**Authentication:** MD5

At the bottom left, there is a checkbox labeled "Top".

# Switch

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

Compiled Fri 12-May-06 17:19 By pt\_team

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet1/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet2/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet3/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet3/1, changed state to up

Ctrl+F6 to exit CLI focus

☐ Top

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet1/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet2/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet3/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet3/1, changed state to up

Switch>en

Switch#confi

Configuring from terminal, memory, or network [terminal]?

Enter configuration commands, one per line. End with CNTL/Z.

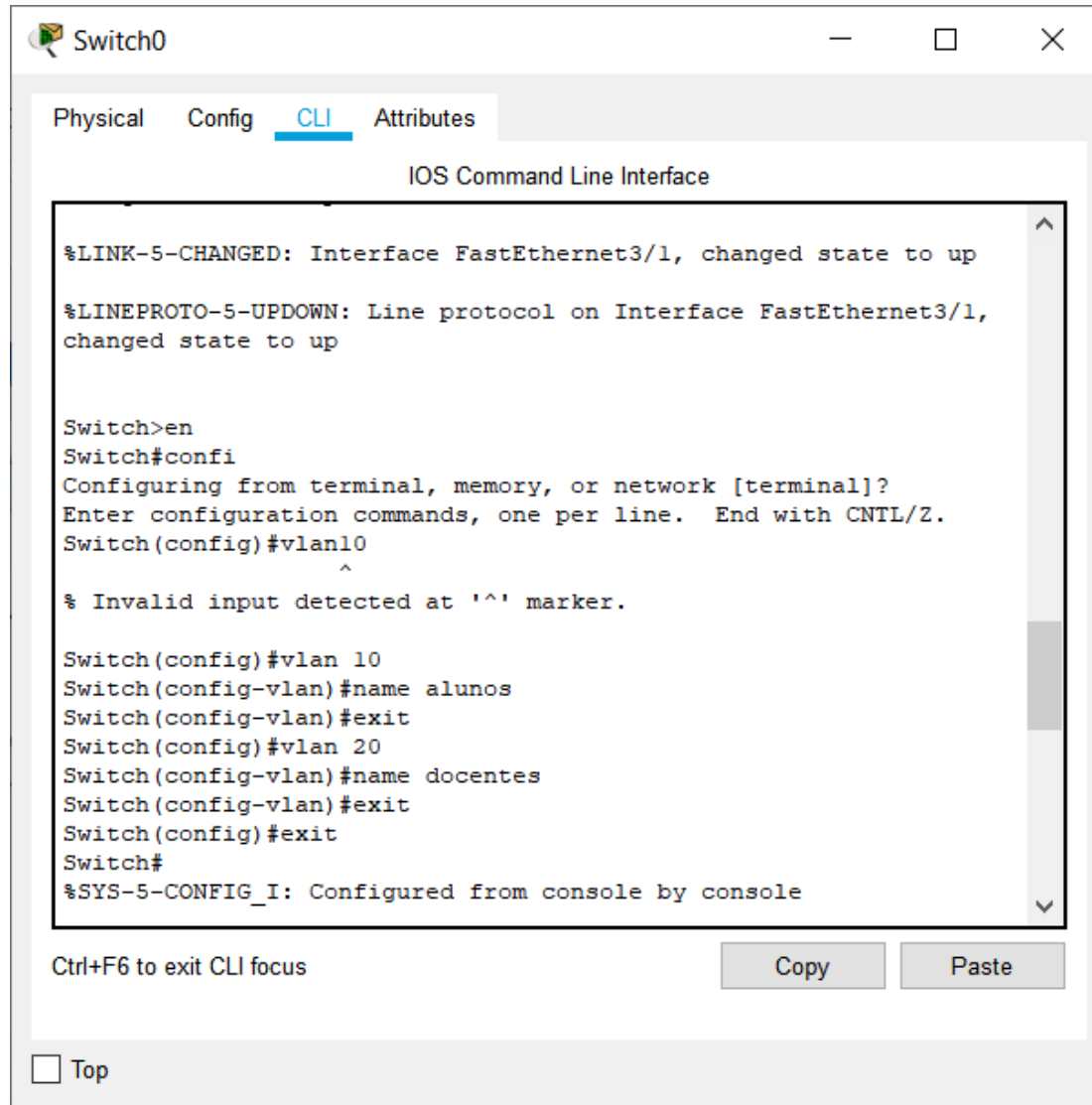
Switch(config)#

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

# Switch – Criação VLAN



The screenshot shows a network switch configuration window titled "Switch0". It has four tabs: "Physical", "Config", "CLI" (which is selected and underlined in blue), and "Attributes". The main area is titled "IOS Command Line Interface" and contains a text box with the following text:

```
%LINK-5-CHANGED: Interface FastEthernet3/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet3/1,
changed state to up

Switch>en
Switch#confi
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan10
                ^
% Invalid input detected at '^' marker.

Switch(config)#vlan 10
Switch(config-vlan)#name alunos
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name docentes
Switch(config-vlan)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

Below the text box, there is a status bar that says "Ctrl+F6 to exit CLI focus". To the right of this are two buttons: "Copy" and "Paste". At the bottom left, there is a checkbox labeled "Top".

# Switch – Show VLAN

Switch0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show vlan
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa1/1, Fa2/1, Fa3/1, Fa4/1, Fa5/1
10	alunos	active	
20	docentes	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2							
1	enet	100001	1500	-	-	-	-	-
0	0							
10	enet	100010	1500	-	-	-	-	-
0	0							
20	enet	100020	1500	-	-	-	-	-
0	0							
1002	fddi	101002	1500	-	-	-	-	-
0	0							
1003	tr	101003	1500	-	-	-	-	-
0	0							
1004	fdnet	101004	1500	-	-	-	ieee	-
0	0							
1005	trnet	101005	1500	-	-	-	ibm	-

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



# Switch – Config Interfaces

The screenshot shows the CLI interface of a switch named Switch0. The 'Config' tab is selected, and the 'IOS Command Line Interface' is active. The interface displays the following configuration commands:

```
Switch#
Switch#
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface f0/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface f1/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface f2/1
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface f3/1
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#
```

At the bottom of the CLI window, there is a prompt 'Ctrl+F6 to exit CLI focus' and two buttons: 'Copy' and 'Paste'.

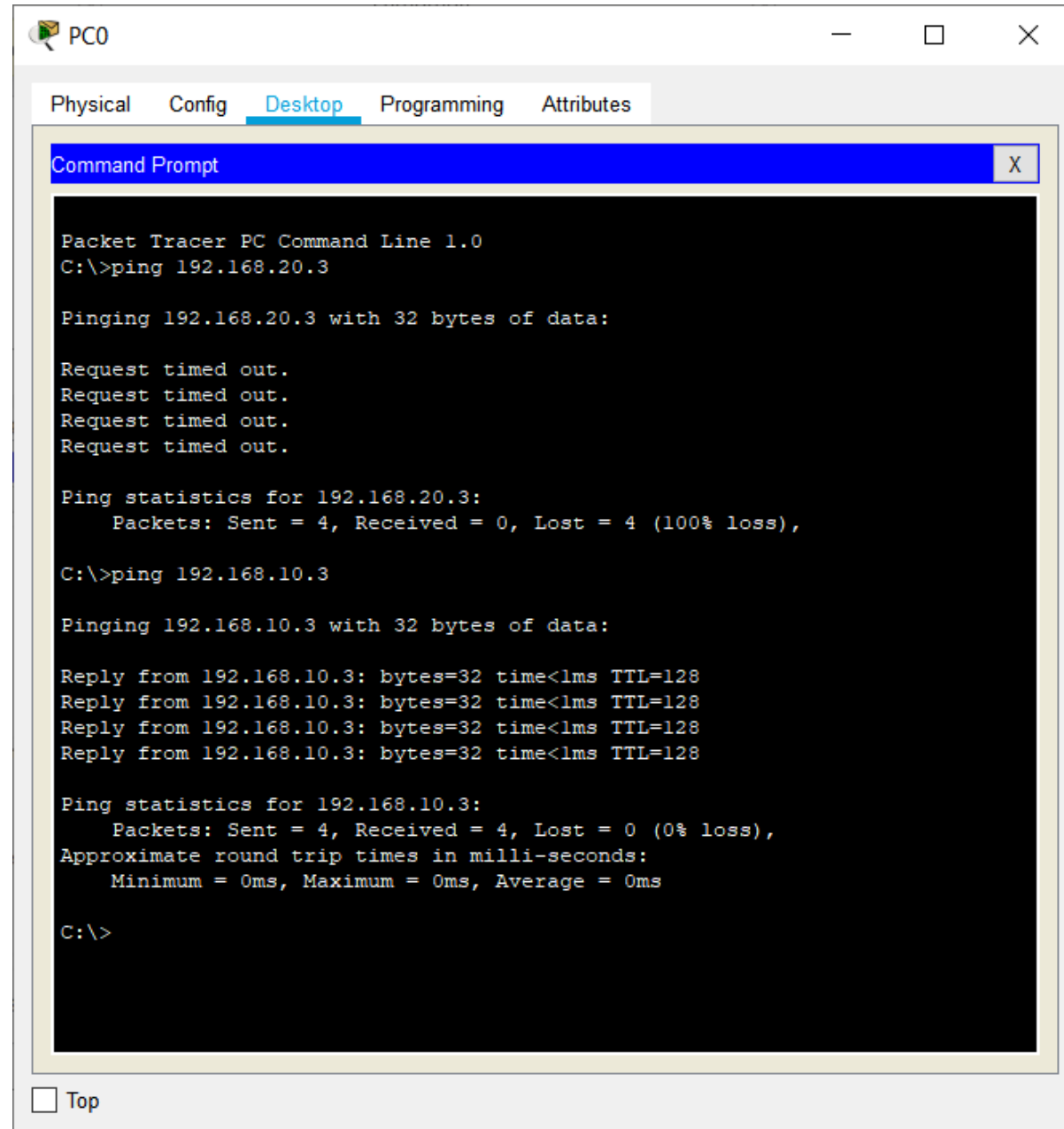
# Save Config



# Testes: ping

PC0->PC3

PC0->PC1



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt X
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time<lms TTL=128
Reply from 192.168.10.3: bytes=32 time<lms TTL=128
Reply from 192.168.10.3: bytes=32 time<lms TTL=128
Reply from 192.168.10.3: bytes=32 time<lms TTL=128

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

☐ Top